Format No: CP/TE/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 14-12-18

Lab ID	:	CP-2019-02-21-52
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No 12 Shettyhalli Sub Division
Agency	:	Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (i.e Chatelier's Method)	1.5mm	Not more than 10 mm

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Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-02-21-52** **Date: 09-01-19**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-52** **Date: 14-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-12-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-21-52 **Date: 08/01/2019**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division

Agency : Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023

Customer's Reference : EE/DD/WO/275/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-01-19

Customer ID : Side Wall Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5

Date of test : 08/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Side Wall Drain Concrete	M20	01/01/2019	08/01/2019	149.11 X 151.98 X 151.92	22662	8.851	421.4	18.6	18.6
2	Side Wall Drain Concrete	M20	01/01/2019	08/01/2019	149.73 X 151.01 X 150.15	22610	8.759	425.5	18.8	
3	Side Wall Drain Concrete	M20	01/01/2019	08/01/2019	149.56 X 151.61 X 149.96	22675	8.440	413.6	18.2	

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-52** **Date: 13-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-02-21-52** **Date: 13-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	
4	Bulk Density(Loose) (Kg/l)	1.43	
5	Bulk Density(Compacted) (Kg/l)	1.49	
6	Water Absorption(%)	0.23	
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-02-21-52** **Date: 16/01/2019**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	09/01/2019	16/01/2019	150.61 X 149.63 X 150.90	22535	8.268	580.1	25.7	25.6
2	Cement Concrete Pavement	M30	09/01/2019	16/01/2019	149.83 X 149.30 X 149.10	22369	8.121	591.6	26.4	
3	Cement Concrete Pavement	M30	09/01/2019	16/01/2019	151.04 X 150.72 X 151.99	22766	8.723	562.9	24.7	

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Format No CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-21-52

Date: 06/02/2019

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division

Agency : Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023

Customer's Reference : EE/DD/WO/275/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	09/01/2019	06/02/2019	149.49 X 151.94 X 151.70	22713	8.789	756.2	33.3	33.2
2	Cement Concrete Pavement	M30	09/01/2019	06/02/2019	151.64 X 150.73 X 151.56	22857	8.287	750.8	32.8	
3	Cement Concrete Pavement	M30	09/01/2019	06/02/2019	149.96 X 150.86 X 151.30	22623	8.569	756.5	33.4	

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 22-12-18

Lab ID	:	**CP-2019-02-21-52**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Druins at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-18
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	18/12/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	2.116	31570	152.9	4.8	4.5	5.6
2	Cover Slab-2	200.49	250.52	2.122	31564	151.3	4.8	4.5	5.6
3	Cover Slab-3	200.50	250.51	2.118	31567	153.5	4.9	4.5	5.7

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2019-02-21-52	**Date: 16-01-19**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division	
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023	
Customer Reference	:	EE/DD/WO/275/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-01-19	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	14-01-19	
Oven Dry Weight	:	11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2019-02-21-52** **Date: 16-01-19**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-19
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	14-01-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Peentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2019-02-21-52** **Date: 16-01-19**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-19
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	14-01-19

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-02-21-52**	**Date: 13-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division	
Agency	:	Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023	
Customer's Reference	:	EE/DD/WO/275/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	11-12-18	
Sample Type	:	Fine Aggregate	
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
Date of test	:	11-12-18	
Total weight taken	:	1000 grams	

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-02-21-52** **Date: 13-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-02-21-52** **Date: 17-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-12-18
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	15-12-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.397	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	668	20.0%	Satisfactory	Satisfactory

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-21-52 **Date: 31/12/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division

Agency : Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023

Customer's Reference : EE/DD/WO/275/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-12-18

Customer ID : Bottom Slab Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	149.76 X 150.57 X 149.33	22549	8.420	418.5	18.6	18.4
2	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	151.56 X 151.11 X 150.14	22903	8.286	420.5	18.4	
3	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	151.93 X 151.74 X 149.90	23054	8.392	418.4	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-02-21-52** **Date: 21/01/2019**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-18
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	151.01 X 151.90 X 149.28	22938	8.722	545.2	23.8	23.4
2	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	149.23 X 149.32 X 149.97	22282	9.044	508.6	22.8	
3	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	151.75 X 150.15 X 149.74	22786	8.384	538.7	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-02-21-52** **Date: 03/01/2019**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division
Agency	:	Sri R. Shivaram, 04/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/275/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-12-18
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	27/12/2018	03/01/2019	151.64 X 150.02 X 150.10	22749	8.420	415.8	18.3	18.2
2	Bottom Slab Drain Concrete	M20	27/12/2018	03/01/2019	150.45 X 150.63 X 150.00	22662	8.286	408.9	18.0	
3	Bottom Slab Drain Concrete	M20	27/12/2018	03/01/2019	151.82 X 150.57 X 149.93	22859	8.392	416.7	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-02-21-52** **Date: 24/01/2019**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at MNT Collage Opposite Area Roads of KG Hally in Ward No.12 Shettyhalli Sub Division

Agency : Sri R. Shivaram, #4/ 13, Avalamma Choultry, Magadi Road, Bengaluru-560023

Customer's Reference : EE/DD/WO/275/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-12-18

Customer ID : *Bottom Slab Drain Concrete*

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	27/12/2018	24/01/2019	149.75 X 150.92 X 149.87	22600	8.722	534.3	23.6	23.2
2	Bottom Slab Drain Concrete	M20	27/12/2018	24/01/2019	151.85 X 149.97 X 150.28	22772	9.044	506.7	22.3	
3	Bottom Slab Drain Concrete	M20	27/12/2018	24/01/2019	149.41 X 151.63 X 150.38	22655	8.384	536.0	23.7	

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